

Notice of Allowability

Application No.

09/196,013

Examiner

Henry N. Tran

Applicant(s)

KOMA, NORIO

Art Unit

2674

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 2/25/05.
2. ☒ The allowed claim(s) is/are 1, 3-5 and 7-34; and are renumbered as 1-32.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of _____.
- Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 2/25/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


HENRY N. TRAN
PRIMARY EXAMINER

DETAILED ACTION

1. The Amendment filed 2/25/05 has been considered in preparing this Office action. The amendments to the claims and applicant's Remarks/Arguments have overcome the rejections recited in the prior Office action mailed 9/20/04.

Information Disclosure Statement

2. The examiner has considered the documents listed in form PTO-1449 submitted with the Information Disclosure Statement (IDS) received 2/25/05 (see the attached form PTO-1449).

Allowable Subject Matter

3. Claims 1, 3-5 and 7-34 are allowed; and are renumbered as 1-32.

The following is an examiner's statement of reasons for allowance:

The present invention is directed to an active matrix liquid crystal display apparatus for displaying high quality color images. Each independent claims 1, 5, 10, 11, 13, 16, 18, 19 and 31 requires a driver circuit (60), see Fig. 3, comprising a maximum transmittance voltage limiter (80), see Fig. 5, for limiting an absolute value of levels of driving voltage signal; whereas, the closest prior art of record, the McKnight document (U.S. Patent No. 6,144,353) requires different upper limit values for different color driving voltage signal (see Fig. 2C); the Sakamoto et al. document (U.S. Patent No. 5,920,301) requires the voltage signal, VD, is set within the range of V0 and Vmax, see col. 8, lines 48-52; the Okumura et al. document (U.S. Patent No. 5,528,257) requires a ROM for storing a set of reference voltage data, and the Miyajima et al. document (U.S. Patent No. 4,942,458) requires that an effective voltage and transmittance in liquid crystal

Art Unit: 2674

differ among R, G, and B; which, either in singularly or in combination, fails to anticipate or render the claimed invention obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

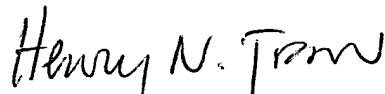
4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. It's U.S. Patent No. 5,528,257 to Okumura, which teaches an LCD apparatus having different processing channels for providing color driving voltages and a ROM for storing a set of reference voltage data.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry N. Tran whose telephone number is 571-272-7760. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick N. Edouard can be reached on 571-272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2674

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink that reads "Henry N. Tran". The signature is written in a cursive, slightly slanted style.

Henry N Tran
Primary Examiner
Art Unit 2674

HT